

RF Amplifier

- * Operating Frequency : 10-1000 MHz.
- * Linear Power : 1 Watt
- * IP3 : 45 dBm.
- * Gain : 30 dB.
- * No external components required



ELECTRICAL SPECIFICATION @ VDD= +15 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	10		1000	MHz.
Gain	G	28	30		dB.
Gain Flatness	ΔG		± 0.50	± 0.75	dB.
Noise Figure	N.F.		4	7	dB.
Output Power	1 dBm	29	30		dBm.
Two Tone Intercept	OIP3	43	45		dBm.
Two Tone Intercept	OIP2	65	70		
VSWR in/out	S11/S22		1.8 :1	2.0:1	Ratio
Operating Voltage	Vdc		15		Volt
Operating Current	Id		440	500	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	2"x1"x0.5"		inches
RF Connectors IN/OUT	SMA-F		
DC Connector	Filtercon		
Cooling	None		
Monitor Connector	None		

PROTECTIONS

RF Input Power	10 dBm.	Max	
Reverse Polarity Protection	Option		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

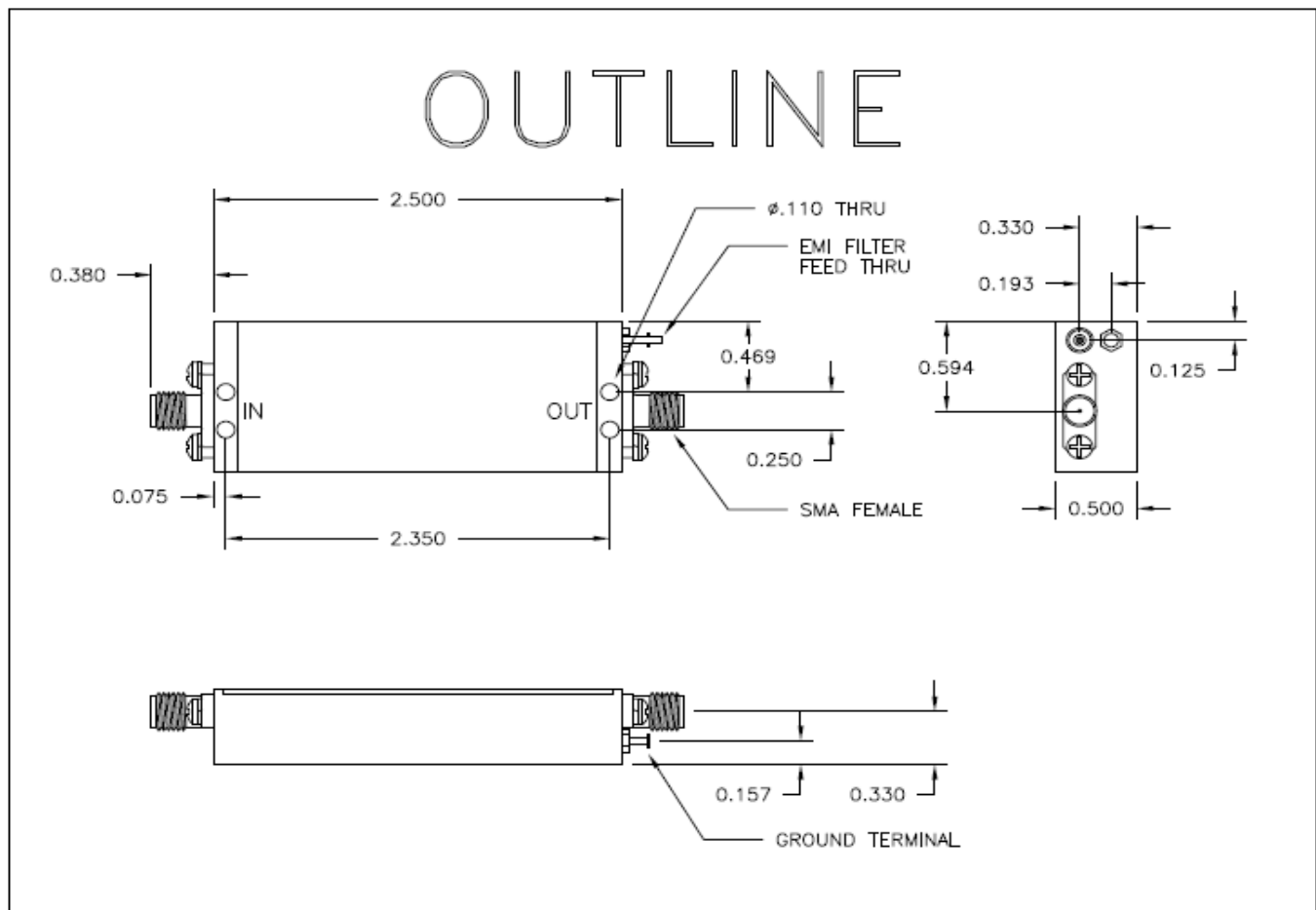
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	0°C		70°C	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing

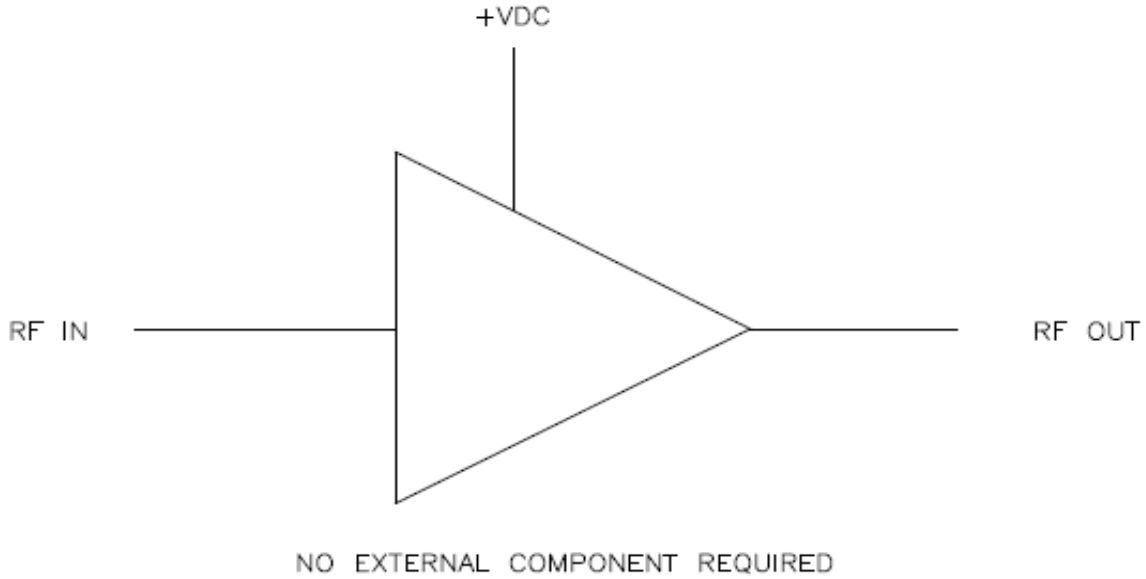


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FUNCTIONAL BLOCK DIAGRAM



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